L3 ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THE THOMSON CORP on STN
AN 1991-015326 [03] WPIX Full-text
DNC C1991-006646
TI Preparation of terminally unsatd. hydrocarbon(s) derivs. - by co-metathesis of long chain cpds. with ethylene in presence of catalyst to give medium chain length.
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IN HAAGE, K; SELENT, D
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Terminally unsatd. hydrocarbons of medium chain length are prepared by co-metathesis of long-chain hydrocarbons with internal C=C bonds, with ethylene, at 90-150 deg.C, during up to 3 h, at an ethylene pressure of 4.5-20 MPa, in presence of a catalyst comprising (a) a W(VI) halide, (b) a tetraalkyl-Sn cpd., and (c) an organo-Al cpd. of the type of AlR3, XAlR2, X3Al2R3 or X2AlR. X = halogen; R = 1-8C alkyl. Pref., components of the catalyst are WCl6, (Me)4Sn and (Et)3Al or EtAlCl2, in molar ratio of 1:0.9-3.5:0.5-1.2. The ratio of catalyst:raw material is 1:25-50. Reaction time is 0.1-0.5h. USE/ADVANTAGE - The terminally unsatd. hydrocarbons are raw materials for synthesis of surfactants, e.g. for cleaning and disinfecting compsns. for aids in the textile industry, or in processing ores. Fatty acids with internal unsatn., and derivs., e.g. esters and nitriles, can be reacted, and carboxylic acid esters of medium chain length are also prepared Catalyst activity and selectivity are high. The process is reproducible, can be used on the large scale, and may be continuous. Reaction times are short. No homo-metathesis prods. are formed. 0/0
FS CPI
FA AB; DCN
MC CPI: D11-D01; E10-J02C2; F01-H06; F03-C; F03-C05; J03-B01; N03-C; N05-A